

# **STANDARDS FOR AGRICULTURE**

- 100.      Agricultural Processing Technology
- 200.      Agribusiness Sales and Marketing
- 300.      Agricultural Engineering and Technology
- 400.      Applied Animal Science
- 500.      Applied Plant Science
- 600.      Entrepreneurship
- 700.      Horticulture
- 800.      International Agricultural Marketing
- 900.      Leadership and Personal Development
- 1000.     Natural Resources
- 1100.      Supervised Agricultural Experience



## **Agriculture**

AG01000

**PACKER TO CONSUMER.**

Note: This video presents information about what is involved in providing a wholesome beef product to consumers. Topics include slaughter, inspection, grading, fabrication, packaging, and marketing. Run time is 17 minutes.

AG01001

**AMERICA'S MOST CRUCIAL INDUSTRY.**

Note: This 15 minute video discusses the agricultural industry contrasting the role it played in the early settlement of the U.S. with its importance to today's society. The broad spectrum of occupations related to agriculture is introduced. Appropriate for grades 9-adult.

AG01002

**IMPACT OF SOUTH DAKOTA AG.**

Note: The impact of agricultural industry on South Dakota's economy is featured in this video program. Run time is 28 minutes.

AG01009

**SWINE JUDGING PRACTICE CLASS. [01/01/90].**

Note: This video shows Yorkshire Gilts, Hampshire Gilts and Crossbred Market Hogs for practice judging. Student judges give oral reports. Run time is 20 minutes.

AG01013

**BIOTECHNOLOGY IN YOUR BACKYARD. [04/02/93].**

Note: This teleconference deals with the use of genetic engineering to enhance agricultural production. The questions of ethics and its effects on human health are probed. Run time is 90 minutes.

AG01016

**NEW PRODUCTS, NEW USES, NEW JOBS. [01/01/94].**

Note: This program introduces many alternative uses for agricultural products as replacements for petroleum based products and other nonrenewable resources. The role played by the Alternative Agricultural Research and Commercialization Center to assist agricultural entrepreneurs in the development of new products is also presented. Run time is 24 minutes.

#### AG01018

##### DAIRY CATTLE JUDGING CONTEST. [1993].

Note: Additional practice is provided on this videotape which includes dairy cow and heifer judging and two sample linear evaluations. The following classes are included: aged Jersey cows, Holstein senior yearling heifers, two-year old Guernsey cows, Ayrshire junior heifer calves, and two linear evaluation classes of Holstein cows. Run time is 54 minutes.

#### AG01019

##### ORAL REASONS FOR HORSE JUDGING. [01/01/94].

Note: Many contests are won or lost in the reasons room, so don't overlook this very important aspect of coaching and judging. This invaluable video for the horse judging team coach includes an in-depth discussion of organization, terminology and presentation of equine oral reasons. Nine sets of reasons are included, critiqued and scored by John Pipkin. This video is recommended for FFA, 4-H and collegiate horse judging teams. Run time is 35 minutes.

#### AG01020

##### HOW TO JUDGE HALTER HORSES. [01/01/94].

Note: This video on halter horses covers all factors used to evaluate equine conformation including: balance, structure, muscling, quality, breed character and travel. John Pipkin explains each factor in graphics to give the most clear, visual pictures possible. A practice class and critique follow his discussion. Run time is 48 minutes.

#### AG01021

##### PRACTICE HORSE JUDGING: HALTER I. [01/01/94].

Note: Halter I contains one class of aged mares and one of aged geldings. Each class consists of four horses shown at the side, front, and rear views individually as well as together. Horses are also shown tracking both coming and going at the walk and trot. Classes are placed, cut and critiqued. Run time is 38 minutes.

#### AG01022

##### PRACTICE HORSE JUDGING: HALTER II. [01/01/94].

Note: Halter II contains one class of aged mares and one class of aged geldings. The video features all horses individually at the side, front, and rear views as well as together through use of a "quad split". This revolutionary technique allows for better comparison between horses and higher quality viewing. The horses are also shown tracking from the side, front, and rear at both the walk and trot. The classes are placed, cut and critiqued by

John Pipkin. Run time is 38 minutes.

AG01023

PRACTICE HORSE JUDGING: HALTER III. [01/01/94].

Note: Halter III contains one class of aged mares and one class of aged geldings. The video features all horses individually at the side, front, and rear views as well as together through use of a "quad split". This revolutionary technique allows for better comparison between horses and higher quality viewing. The horses are also shown tracking from the side, front, and rear at both the walk and trot. The classes are placed, cut and critiqued by John Pipkin. Run time is 48 minutes.

AG01024

THE HEART OF THE MATTER: ANIMAL RIGHTS AND PERSONAL BELIEFS. [01/01/93].

Note: The first of its kind nationwide, this video is a basic introduction to the popular and philosophical concepts related to the use of animals in our society. This video promotes self-examination of the viewer's own personal values and beliefs about the human and animal relationship. A facilitator's guide designed to provide additional support material is included. Run time is 21 minutes.

AG01025

A QUESTION OF ETHICS. [01/01/94].

Note: In 1994, this was the most aggressive educational program in the country to address the rare cases of unethical practices associated with the Jr. Livestock Program. This video wastes no time in getting to the point of explaining why some people should and why some people should not be involved with Jr. Livestock shows. This ground breaking video is a "must-see" for every FFA and 4-H family in the country. The entertaining style of the video makes it a hit for all who view it. A facilitator's guide is included with additional support material. Run time is 20 minutes.

AG01026

A STEP BEYOND: A QUESTION OF ETHICS. Texas A&M University.

Note: The "A Question of Ethics" video raised the issue of the challenge of ethics in the Jr. Livestock Program, the "A Step Beyond: A Question of Ethics" video gives teachers, agents, and parents the tools to address this subject as situations arise at the local level. This sequel video is absolutely essential viewing for anyone involved in the Jr. Livestock Program. The entertaining and informative style of Jeff Goodwin is carried on with this educational program. A facilitator's guide is included. Run time is 25 minutes. 1995.

AG01027

CLONING - HOW AND WHY. Human Relations Media, [1998].

Note: This video discusses what cloning is and why it is important. Ordinarily living organisms, plant and animal, reproduce themselves by sexual methods. Sometimes plants and animals can also reproduce by another method-cloning.

In cloning, a non-sexual cell from an adult organism is used to produce a new organism. This non-sexual cell itself contains not half, but all of the information needed. The resulting organism will not be a unique one-of-a-kind organism, but will be almost exactly like the adult whose cell was used for the cloning. The video features the Roslin Institute in Scotland, where the very first mammal was cloned. It also features DeForest, Wisconsin where they have just announced the cloning of three bull calves. Run time is 31 minutes.

#### AG01028

1997 HORSE JUDGING CONTEST. CEV, [1997].

Note: This video provides horse judging skills in halter (3-year-old stallions), hunter under saddle, western pleasure, western riding, and trail and reining. Run time is 57 minutes. 1997.

#### AG01029

1998 HORSE JUDGING CONTEST. CEV, [1998].

Note: This program features a horse judging contest illustrating five classes: halter, hunter under saddle, western riding, trail and reining. Run time is 56 minutes. 1998.

#### AG01031

SWINE MANAGEMENT PRACTICES II. CEV.

Note: This program discusses factors that affect reproductive performances of the sow, gestational care, farrowing management and litter processing. The video furnishes excellent information concerning environmental concerns of swine, housing designs, waste management, pest control and shipping procedures that minimize stress and shrink loss. A 10-question quiz ends the presentation. Run time is 19 minutes.

#### AG01032

FUNDAMENTAL ANIMAL MICROGENETICS. CEV.

Note: This video provides a basic understanding of genetics. This informative program offers a look at the genetic, biochemical and environmental processes responsible for the differences and similarities among animals of the same species. Microgenetics examines the history and fundamental rules of genetic studies, then explains chromosomes, mitosis, meiosis, sex determination, genes, DNA, and RNA. Run time is 43 minutes.

#### AG01033

LIVESTOCK JUDGING: MARKET STEER EVALUATION. CEV.

Note: In this video, important evaluative criteria for market steers is demonstrated: muscling which illustrates using steers and special effects; correctiveness of finish contrasts which shows two steers while discussing the 12th rib, brisket, flank, cod and pin area, and bone area; balance which shows the animal at rest and in motion, and structural correctiveness which demonstrates using steers with various defects, such as sickle hocked, straight shouldered, toed-out, straightness of knee, post legged, small outside toe, cow hocked, coarse open shoulder. Also shown is correctiveness

of weight which covers substance acceptability for the industry, ideal weight, and dressing percent. Run time is 45 minutes.

#### AG01034

##### LIVESTOCK JUDGING: BREED HEIFER EVALUATION. CEV.

Note: During this video, a livestock judging coach whose collegiate teams have won three championships helps students judge breeding heifers using the following five criteria: structural soundness, volume, balance, femininity, and performance data. A practice class of shorthorn heifers is placed with a polished set of collegiate livestock judging member. Run time is 38 minutes.

#### AG01035

##### LIVESTOCK JUDGING: FUNDAMENTALS. CEV.

Note: Four of the top livestock evaluators in the country explain the skills gained through livestock evaluation and then demonstrates their expertise. Viewers see what to observe while evaluating market steers, breeding heifers, market lambs, breeding sheep, market hogs, and gilts. Contest tips are also highlighted, such as what type of notes to take and correctly marking the scorecard. Quizzes follow each section. Run time is 43 minutes.

#### AG01036

##### DAIRY CATTLE JUDGING: COWS. CEV.

Note: A top dairy judging expert displays the skills that have allowed his teams to bring home four national championships. Listen and watch as he discusses parts, terminology and the skeletal structure of the dairy cow. He explains each edition of the PDCA (Purebred Dairy Cattle Association) scorecard using contrasting pairs of cows to evaluate udders, dairy character, feet and legs, frame, body capacity, and faults and defects. Run time is 50 minutes.

#### AG01037

##### DAIRY CATTLE JUDGING: HEIFERS. CEV.

Note: This video displays superb dairy heifers (Holstein, Jersey, Brown Swiss, and Guernsey) that display good contrasts. Using the recommended scorecard, Dave Dickson illustrates in an understandable, concise manner the methods for evaluating dairy heifers. Sections include Frame (40 points, Feet and Legs (25 points), Dairy Character (20 points), and Capacity (15 points). Run time is 25 minutes.

#### AG01038

##### DAIRY CATTLE JUDGING: FUNDAMENTALS. CEV.

Note: The narrator in this video teaches the skills of linear evaluation needed to appraise udders, feet and legs, frame, body capacity and dairy character. He explains the Purebred Dairy Cattle Association (PDCA) scorecard for judging dairy cows and heifers and gives tips about judging. In addition, interviews from current and past judges inspire young people to want to

judge. Quizzes are provided to test students' judging knowledge. Run time is 45 minutes.

AG01039

1997 DAIRY JUDGING CONTEST. CEV.

Note: This video presents for your evaluation four placing classes (3-year-old Jersey cows, Brown Swiss Senior Yearling Heifers and Aged Holstein Cows) and two linear evaluations (two Holstein cows). Run time is 51 minutes.

AG01040

1998 DAIRY JUDGING CONTEST. CEV.

Note: This competition-level video has four placing classes: two cow classes and two heifer classes, as well as two cows for linear evaluations. Run time is 54 minutes.

AG01041

CAREERS IN PLANT & SOIL SCIENCE. CEV Multimedia, [1995].

Note: Did you know there are many careers in agriculture besides that of a farmer? This program explains just a few of the jobs available within the four major categories of production agriculture, plant and soil research, governmental regulatory agencies and industrial agriculture. Footage of daily activities and interviews with those working in plant and soil sciences highlight the following career specialties: professor of soils, extension agronomist, vocational agriculture teacher, soil conservation service district conservationist and fertilizer retail sales and operational supervisor. A video quiz included. Run time is 21 minutes. 1995.

AG01042

AGRICULTURAL PRODUCERS. [1995].

Note: The program outlines employment opportunities, necessary skills/degrees required and average salaries for several general careers. Interviews with a vegetable producer, cotton producers, livestock producers and a spur maker spark interest as they highlight what drew them into their specific fields. 31 min. 1995.

AG01043

LIVESTOCK JUDGING: PRACTICE I. CEV Multimedia, [2001]

Note: This video is designed to help students improve their livestock judging skills. The presentation is comprised of five classes: mixed market steers, crossbred market barrows, Shorthorn heifers, crossbreed market lambs and Yorkshire breeding gilts. The official class placings and cuts are provided by Clay Elliot, instructor of animal science and livestock judging coach at Texas Tech University. Run time is 37 minutes. 2001.

AG01043

TECH PREP....AGRISCIENCE OCCUPATIONS. Technimedia Studios, [1994].

Note: Tech Prep...Agriscience combines the love of nature and the environment with a strong technical background. Many students do not realize how many exciting careers there are in the field of Agriscience Occupations. Those

with special talents and interests will benefit from this career path. This video show how career planning can be the start towards a rewarding and fulfilling future. It provides vital information such as, earning potential, employee outlook and many of the available careers. 1994.

#### AG01044

INTRODUCTION TO BIOTECHNOLOGY. CEV Multimedia, [2001].

Note: In some ways, biotechnology is about changing the nature of nature. Come along on a tour of biotechnology in plants, animals and human medicine.

Biotechnology is one of the fastest-growing and most exciting fields in science. Scientists in plant, animal and human medical services discuss examples of cloning and transgenics - the removal and transplantation of genes into other organisms. Did you know some plants, like BT cotton, can make their won pesticides? Or organisms can be transformed into bioreactors - living factories of important chemicals? Or organs and tissues from animals can be. Run time is 31 minutes. 2001.

#### AG03000

THAT ENGINES MAY LIVE - ENGINE MAINTENANCE SERIES.

Note: This 60 minute tape contains four separate programs on preventive maintenance of engines. The titles are Clean Air, Efficient Cooling Systems, Function of Lubrication and Clean Fuel. Run time is 60 minutes.

#### AG03003

FARM SAFETY FOR KIDS. [01/01/93].

Note: This video presents statistics on the numbers of children that are injured or killed because of farm related accidents. Examples of farm activities that require extra care to insure child safety are presented. The program suggests 15 steps to take to avoid accidents. Run time is 18 minutes.

#### AG03004

AGRICULTURAL LABORATORY SAFETY. [01/01/96].

Note: This video deals with accident rates and health problems associated with secondary agricultural sciences. Accidents are recognized as the leading cause of death or injury for persons one to thirty-seven years of age.

Safety in agricultural mechanics laboratories is an issue for both students and teachers. An instructor's guide is included. Run time is 27 minutes.

#### AG03005

CONCRETE: COMPOSITION AND MIXING. [01/01/96].

Note: This video provides viewers with a solid foundation for learning. The following points are discussed: concrete composition; safety considerations when working with concrete; how to accurately determine amounts of and how to mix materials; various formulas for determining different mixing ratios of concrete; and striking and floating an initial pouring. Run time is 36 minutes.

#### AG03006

FARM IMPLEMENTS I: TILLAGE. [01/01/96].



Note: From toolbars to field cultivators, a wide variety of tillage tools are shown through this program. These tools include: moldboard plows; toolbars; disk plows; chisel plows; harrows; stubble-mulch plows and tillers; listers and bedders; and field cultivators. Basic tillage practices and a brief history of tillage are included with a review to help students retain the material covered. Run time is 28 minutes.

#### AG03007

##### FARM IMPLEMENTS II: PLANTING AND CULTIVATION. [01/01/96].

Note: Learn to identify the major farm implements used by farmers for planting, drilling, seedbed preparation and cultivation of crops. Different planting methods are presented, including: flat planting; bed or ridge planting, and furrow or profile planting. The value of weed control, and the chemical procedures and the mechanical procedures of controlling weeds are discussed. This is the second in a three part series on farm implement identification. Run time is 25 minutes.

#### AG03008

##### FARM IMPLEMENTS III: PRE-HARVEST AND HARVEST. [01/01/96].

Note: This video presents preparation equipment and specialized harvesting equipment. The use and history of pull-type or self-propelled combine, conventional or rotary combine, and level land or tillside combines are discussed. This program features basic principles of combines, strippers, pickers, shredders, swathers, and hay balers. A review of the material shown concludes the program. Run time is 25 minutes.

#### AG03009

##### FARM EQUIPMENT SAFETY. CEV Multimedia, [2000].

Note: The safety procedures explained in this videoactive tape can help prevent most, if not all, equipment accidents. The presentation will educate the operator on safety techniques for many pieces of equipment, such as tractors, fuel storage, hydraulics equipment and PTOs. An instructor of Agricultural Education discusses proper safety procedures and gives personal accounts of how these measures can save lives. Interviews with farmers, fire and rescue officials and other safety experts are included to teach the importance and need for farm equipment safety education. Run time is 20 minutes.

#### AG04000

##### BEEF REPRODUCTION I.

Note: This 32 minute video covers bull and heifer selection, functional anatomy of the bull and cow, and microscopic views of the sperm and egg cells.

#### AG04001

##### BEEF REPRODUCTION II.

Note: This video tape covers natural mating and artificial insemination, pregnancy diagnosis and developing ovum. Reproductive tracts at different stages are illustrated. Run time is 43 minutes.

AG04002

**BEEF REPRODUCTION III.**

Note: This program shows fetuses at various stages of development, palpation, stages of calving, assistance at calving and post-calving management. Run time is 36 minutes.

AG04003

**SWINE MANAGEMENT PRACTICES I. CEV, [1994].**

Note: This video describes four types of swine production operations, site selection, housing, breeding management, gestation, farrowing, litter processing and management from weaning to market. A 20-question quiz is included on the video. Run time is 18 minutes. 1994.

AG04003

**SWINE MANAGEMENT PRACTICES I.**

Note: This video includes characteristics of swine, site selection, management of late gestation sows, farrowing and cord care. Run time is 23 minutes.

AG04004

**SWINE MANAGEMENT PRACTICES II.**

Note: This video covers clipping needle teeth, tail docking, iron injections, ear notching, castration, weaning, nursery, feeding/finishing and paint branding. Run time is 22 minutes.

AG04005

**MANAGEMENT PRACTICES FOR BEEF CATTLE I.**

Note: This video covers handling and restraint techniques, identification, vaccination, growth stimulant implantation, and dehorning of beef cattle. Run time is 25 minutes.

AG04006

**MANAGEMENT PRACTICES FOR BEEF CATTLE II.**

Note: This video covers castration, external and internal parasites, treatment, palpation, and artificial insemination. Run time is 46 minutes.

AG04007

**FEEDER CATTLE GRADING.**

Note: This video provides instruction in the evaluation of feeder cattle based on frame size and muscle thickness. A variety of feeder cattle are featured and practice examples are shown. Run time is 20 minutes.

AG04008

**MARKET CATTLE GRADING.**

Note: This video includes an evaluation of slaughter cattle based on predicted U.S. quality grade and U.S. yield grade. A variety of characteristics such as age, sex, weight, fatness, muscling and breed are used to teach fundamentals of slaughter cattle evaluation. Run time is 23 minutes.

AG04009

**MARKET SWINE GRADING.**

Note: A variety of characteristics such as breeds, weight, sex, muscling and fatness are used as examples to teach the evaluation of market barrows and gilts. Practical examples are included. Run time is 32 minutes.

AG04010

**FUNDAMENTAL LIVESTOCK PARTURITION.**

Note: This video is designed to create the study of reproduction for animal science, science, or agricultural science students. The program presents the fundamentals of mating, gestation and birth of cattle, sheep and swine. Run time is 18 minutes.

AG04011

**CONCEPTION TO FEEDER.**

Note: The basic steps in red meat production from cattle conception to feeder with comments from experts are presented. Run time is 18 minutes.

AG04013

**HANDLE WITH CARE: A GUIDE TO WHOLESOME BEEF PRODUCTION.**

Note: This video outlines steps to take to ensure the health of the cattle herd, thereby producing high quality beef. Recordkeeping activities and proper feeding, and the administration of vaccine are also included. Run time is 22 minutes.

AG04016

**SELLING PREVENTATIVE DEWORMING IN A COW-CALF OPERATION.**

Note: This video covers preventative deworming in a cow-calf operation and the benefits it provides. Run time is 22 minutes.

AG04017

**CATTLE BREED IDENTIFICATION: DAIRY.**

Note: Video footage of the six major dairy breeds in the United States along with narration providing characteristics such as typical weights and milk characteristics help the viewer to identify various cattle breeds. Run time is 21 minutes.

AG04018

**SHEEP CASTRATION.**

Note: A step-by-step demonstration of sheep castration is shown. Run time is 15 minutes.

AG04019

**SHEEP DOCKING.**

Note: This video demonstrates the best procedures for sheep docking to insure safety. Run time is 14 minutes.

AG04020

SHEEP SHEARING.

Note: The procedures for safe and efficient sheep shearing are covered. Run time is 22 minutes.

AG04021

LINEAR CLASSIFICATION OF DAIRY CATTLE. [01/01/94].

Note: Linear evaluation of dairy cattle allows producers to improve lifetime production, increase the number of profitable lactations, reduce the number of herd replacements and experience more real profit from their dairy operation. Instruction in identifying the parts of a cow, the fifteen primary descriptive linear trait standards as illustration in the Holstein Association Linear Classification Handbook are included. Run time is 36 minutes.

AG04023

CATTLE BREED IDENTIFICATION: CONTINENTAL. [1996].

Note: This video features the beef cattle breeds of Europe. Live-action video of bulls, cows and calves is combined with computer graphics to present the importation history, major characteristics, breed registry, color patterns and mature weights of each breed. The following breeds are included: Belgian Blue, Gelbvieh, Pinzgauer, Braunvieh, Simmental, Chianina, Marchigiana, Piedmontese, Romagnola, Blonde d'Aquitaine, Charolais, Limousin, Maine-Anjou, Salers, Tarentaise and Texas Longhorn. Run time is 30 minutes. 1996.

AG04024

CATTLE BREED IDENTIFICATION: BRITISH. [01/01/96].

Note: This video features cattle breeds of England and Scotland with expert narration and exciting graphics detailing origins, importation facts, breed associations and notable characteristics including color patterns and typical mature weights of bulls and cows. Bulls, cows and calves are shown along with maps and historical pictures. Breeds included are Angus, Devon, Galloway, Belted Galloway, Hereford, Polled Hereford, Red Angus, Red Poll, Scotch Highland, Shorthorn, Sussex and White Park. Run time is 21 minutes.

AG04025

FOALING. [01/01/97].

Note: This video provides a detailed explanation of the initial stages of foaling and provides students with the necessary knowledge to recognize the signs of a mare beginning labor. Understanding of the process is enhanced through continued explanation as the mare actually gives. Delivery and care of the foal are shown in vivid detail. Foaling problems such as maternal and fetal dystocia are also presented for discussion. Run time is 16 minutes.

AG04026

HARRIS RANCH FIELD TRIP. [01/01/97].

Note: Tour the Harris Ranch and observe the daily operations of this renowned horse facility. Focusing on thoroughbred reproduction, this program also includes several thoroughbred stallions. Pregnancy checking and ultrasound techniques are also shown in this informative video. This is a highly informative program for those with an interest in ranching or thoroughbred horses. Run time is 15 minutes.

#### AG04027

THE PITCHFORK RANCH. [01/01/97].

Note: Viewers will enjoy this tour of the historic Pitchfork Ranch. Located near Guthrie in central west Texas, this 165,000 acre ranch incorporates many traditional methods of ranching into its modern day operations. View the spring roundup, farming operations, brush control procedures, branding horses and cattle and processing calves. Run time is 26 minutes.

#### AG04031

INTRODUCTION TO LIVESTOCK NUTRITION. Visual Education Productions, [1994].

Note: Do you know why you never see a herd of swine feasting on a lush pasture? As you learn about the process of food intake, dietary needs and restrictions for horses, goats, pigs and sheep, you'll understand the differing functions and abilities of the digestive system of ruminant and nonruminant animals. You'll also examine feed and feeding programs each type of livestock requires. Run time is 13 minutes. 1994.

#### AG04032

INTRODUCTION TO FEEDS AND FEEDING. Visual Education Productions, [1994].

Note: Discover the scientific knowledge needed to plan a successful livestock feeding program. This program explores major classes of nutrients and feeds. Also, it covers determining the feed appropriate for a particular species, class of livestock or production level, and palatability, additives, ration formulation and feeding program evaluation. Run time is 17 minutes. 1994.

#### AG04033

DIGESTIVE SYSTEMS OF LIVESTOCK: A BASIC LOOK. CEV Multimedia, [2000].

Note: This program explores the digestive systems of monogastric animals (horses, pigs and chickens) and ruminants (cattle, sheep, goats). Watch as a professor of animal science uses models, computer-generated graphics, laproscopic images taken within the system of a live animal, and digestive tracks removed from slaughtered animals to teach about prehension, mastication, simple digestion and rumination. Viewers explore the entire digestive system of a pig, chicken and steer to identify organs and to understand the tissue structures and functions. The instructor dissects organs to expose contents and secretions that aid in digestion. Review questions are presented at the end of each section. The video concludes with 10 identification and multiple-choice questions. Run time is 35 minutes. 2000.

#### AG04034

**RUMINANT DIGESTIVE SYSTEMS: A CLOSER LOOK. CEV Multimedia, [2000].**

**Note:** Through computer-generated graphics, models, skeletal parts and digestive systems removed from slaughtered animals, a scientist with more than 20 years of experience explains the digestive systems of cattle, sheep, deer and goats. The instructor begins with an overview of prehension, salivation, mastication and rumination. Then he briefly reviews anatomy: the rumen, reticulum, omasum, abomasum and lower digestive tract. As he dissects the digestive track from a 1,000-pound steer, the instructor shows and explains organ structures, contents, tissue textures, functions and capacities. Highlights include: a cannula placed in a live steer to examine stomach contents while the steer is digesting and laproscopic footage filmed from inside the digestive track. Run time is 41 minutes. 2000.

**AG04035**

**FIELD TRIP: SWINE PRODUCTION. CEV.**

**Note:** Come along as our video cameras visit the Texas division of National Hog Farms, whose state-of-the-art facilities house more than 17,000 sows, yielding 350,000 marketable pigs per year. You will examine the three phases of production: breeding, farrowing and finishing. Then, you will be shown how the hog farm takes care of housing, handling, disease control, ventilation, immunization and waste management. Viewers may be amazed by the numerous record-keeping procedures necessary for running an efficient swine production facility. A quiz is included. Run time is 47 minutes.

**AG04036**

**CAREERS: EQUINE INDUSTRY. CEV.**

**Note:** Potential equine careers are discussed in two sections of this program: direct and indirect involvement. Direct involvement explores hands-on activities with horses such as veterinary medicine, farm operations, training, and professional services. Indirect involvement covers business, communications, and sales. Hear top equine experts from the American Quarter Horse Association offer insight into various indirect careers in the industry. See an excellent overview of the racing industry, illustrated with vibrant footage from the Lone Star Park in Grand Prairie, Texas. Career specialists discuss their areas of expertise in detail from education requirements to daily responsibilities. A character analysis quiz is included to help determine if a career in the equine industry could be in your future. A comprehensive 10-question quiz is included. Collaborator: John Pipkin, Ph.D., Equine Industry Program, West Texas A&M University. A supplement is included. Run time is 30 minutes.

**AG04037**

**FIELD TRIP: FISH HATCHERY. CEV.**

**Note:** Join us at one of the nation's most innovative hatcheries-the A.E. Wood Fish Hatchery, which produces more than 20 million fry annually. Watch channel catfish and paddlefish egg hatching in the incubation room. See Florida bass collected out of a "Kansas Kettle" and transported to area lakes and reservoirs. Observe genetically marked Florida bass being "tagged"

with radio transmitters. Do you know how biologists determine the sex of Koi, collect them from ponds and encourage their spawning? Come along and discover for yourself. Supplement included. Collaborator: Pat Hutson, director of programs, Texas Parks & Wildlife Fish Hatchery System. A supplement is included. Run time is 39 minutes.

#### AG04038

##### BOVINE PARTURITION BY CESAREAN SECTION. CEV.

Note: This program contains graphic live-action footage of the complete cesarean section delivery of a Brangus bull calf (a product of genetic cloning and embryo transfer) performed on a recipient Holstein heifer. A licensed veterinarian performs and explains the procedures leading up to, during, and following the surgery. Reasons for the cesarean, medications used, obstetrical exams performed prior to the operation, sanitation safeguards and care of the newborn calf are shown and discussed. Run time is 21 minutes.

#### AG04039

##### FIELD TRIP: EGG PRODUCTION. CEV.

Note: This program features live footage of a completely automated operation following the egg from the chicken to the carton. Delvin Barrett, president of Feather Crest, discusses nutrition, housing and environmental control for his laying hens. Watch the eggs as they roll down onto the main line, are washed, "candled," sorted by weight, placed into their packing containers and prepared for shipment. Observe the assembly-line process where metal claws pick up and transport the fragile eggs to their cartons. Sanitation and health concerns are addressed as well. On-video quizzes and a supplement enhance the learning tour. Run time is 46 minutes.

#### AG04040

##### EXCEL PORK PLANT: SLAUGHTER. CEV.

Note: This program features a tour through EXCEL's Ottumwa (Iowa) pork packing plant, where 12,500 hogs are efficiently and humanely slaughtered each day. At buying stations, hogs are sorted, counted, weighed, tattooed, washed and rested. Pre-slaughter tasks include antemortem inspection by a USDA veterinarian, washing, and humane stunning with electricity. Slaughter processes you'll view include sticking and bleeding, dehairing, removal and processing of the head, evisceration of internal organs, carcass splitting, and chilling in a blast freezer at -40 degrees. You'll also discover how pork by-products are turned into fertilizer, sausage casings and other products. Safety and quality control measures you'll learn about include extensive worker training, HACCP programs, on-site inspection by USDA and EXCEL personnel, and laboratory testing. Did you know that all production areas are cleaned and sanitized daily, and all areas must pass inspection before the next shift can begin work? Section quizzes and a final quiz

check viewer's understanding. Supplement included. Run time is 37 minutes.

AG04052

FIELD TRIP: DAIRY FARM. CEV Multimedia, [2000].

Note: This is not your usual "how we get our milk and ice cream" field trip.

Shot on location at a model dairy farm on the campus of the University of Wisconsin, this program focuses on dairy cattle management and milk production. Areas discussed include dairy cattle reproduction and artificial insemination, nutrition, calf and heifer management and basic components of dairy facilities. Run time is 28 minutes. 2000.

AG04053

FIELD TRIP: ZONNEVELD DAIRY. CEV Multimedia.

Note: Take a field trip to one of the largest, most efficient dairies in the country. With over 10,000 dairy cattle, the family owned and run Zonneveld dairy in Laton, CA, produces 31,000 gallons of milk a day. Viewers will see the sire pens, maternity area, calving facilities, milking parlors and hospital pen. They will learn about sire selection and cow replacement, and they will see the many activities that go into upkeep and sanitation maintenance for a dairy facility.

AG05000

ORGANIX: A BLEND OF NATURE AND TECHNOLOGY.

Note: This video includes the process of turning sewage sludge into useful composting materials, and the advantages of lower cost, higher fertility, high organix matter and less plant diseases. Run time is 15 minutes.

AG05001

CONTROL, CONTAIN, CLEANUP: HANDLING CROP PROTECTION CHEMICALS SAFELY.

Note: This video stresses the importance of proper cleanup of liquid and dry chemical spills and proper storage and handling of chemicals and container disposal. Run time is 19 minutes.

AG05002

AG CHEMICAL MIXING AND APPLICATION.

Note: This video emphasizes the importance of proper chemical mixing, equipment set-up and accuracy of application. Run time is 65 minutes.

AG05003

CAUTION - AMONIA, HANDLE WITH CARE.

Note: This program discusses the properties and characteristics of anhydrous ammonia and stresses the importance of safe handling. Short segments cover equipment design, personal safety and transfer from transport to storage and to the consumer. Run time is 56 minutes.

AG05005



#### SOYBEAN QUALITY: MEETING THE CHALLENGE.

Note: Soybean production in the United States is covered in this video. The need to increase the quality of soybeans produced to participate successfully in the world market is discussed. Run time is 16 minutes.

#### AG05010

##### THE PLANT NUTRITION SERIES: PLANT NUTRITION BASICS. [01/01/96].

Note: Each video in this series presents essential information on different areas of plant nutrition and provides the viewer with a thorough treatment of the topic. Numerous tables, charts, graphs, and photographs aid in understanding the material. These videos are ideal for the classroom, and for use by consultants and practitioners. The programs are also very helpful to anyone taking certification exams. Run time is 30 minutes.

#### AG05011

##### THE PLANT NUTRITION VIDEO SERIES: THE MAJOR ELEMENTS. [01/01/96].

Note: Second in the series, this video discusses the nine major elements in plant nutrition: hydrogen, carbon, oxygen, nitrogen, phosphorus, magnesium, potassium, calcium and sulfur. Run time is 30 minutes.

#### AG05012

##### THE PLANT NUTRITION VIDEO SERIES: THE MICRONUTRIENTS. [01/01/96].

Note: Each video in this series presents essential information on different areas of plant nutrition and provides the viewer with a thorough treatment of the topic. Numerous tables, charts, graphs and photographs aid in understanding the material. These videos are ideal for the classroom, and for use by consultants and practitioners. They are also very helpful to anyone taking certification exams. Run time is 30 minutes. 1996

#### AG05013

##### THE PLANT NUTRITION VIDEO SERIES: PLANT ANALYSIS. [01/01/96].

Note: Each video in this series presents essential information on different areas of plant nutrition and provides the viewer with a thorough treatment of the topic. Numerous tables, charts, graphs and photographs aid in understanding the material. These videos are ideal for the classroom and for use by consultants and practitioners. They are also very helpful to anyone taking certification exams. Run time is 30 minutes. 1996

#### AG05014

##### THE PLANT NUTRITION VIDEO SERIES: TISSUE TESTING. [01/01/96].

Note: Each video in this series presents essential information on different areas of plant nutrition and provides the viewer with a thorough treatment of the topic. Numerous tables, charts, graphs and photographs aid in understanding the material. These videos are ideal for the classroom, and for use by consultants and practitioners. They are also very helpful to anyone taking certification exams. Run time is 30 minutes. 1996

AG05015

PESTICIDE SAFETY. [01/01/96].

Note: This video provides viewers with instruction on how to secure their safety around pesticides, where pesticides can be found and how to avoid these areas; how pesticides can enter the body; how to recognize the signs and symptoms of exposure to pesticides; treatments if they are exposed; and the laws that protect them. Run time is 15 minutes.

AG05016

SOIL CONSERVATION. [01/01/96].

Note: This video provides an informative examination of soil erosion, the impact it has on our economy, its causes (i.e., water and wind) and prevention. Experts provide a detailed explanation of soil conservation including how the concept evolved and the importance of its continued practice. Learn soil, conservation and techniques (i.e., planting to help prevent erosion, creating water runoffs, managing topsoil) that can be utilized in both rural and urban areas. An excellent supplement for soil related or conservation curriculum. Run time is 18 minutes.

AG05017

THE SCIENCE OF PROPAGATION VOLUME 1: SEEDS. San Luis Video Publishing, [2000].

Note: This video covers many manual sowing techniques, as well as the use of semiautomatic and fully automatic vacuum seeders. Explore all of the advantages of seeds have and study genetic variation, hybrids, seed anatomy, stages of germination, harvesting, winnowing and threshing techniques. Learn about the many special germination requirements such as scarification, stratification, overcoming chemical inhibition, seed dormancy and quiescence. Students will discover the tools and techniques needed for seedling culture and transplanting. Run time is 32 minutes. 2000.

AG05018

THE SCIENCE OF PROPAGATION VOLUME 2: CUTTINGS. San Luis Video Publishing,

Note: From hardwood cuttings to hardening off, this video shows the tools, processes and methods used by professional propagators to successfully grow plants from cuttings. Many examples of stem-cuttings, leaf- cuttings, and root-cuttings are demonstrated, as well as specific examples of hardwood, semi-hardwood, softwood and herbaceous cuttings. Explore plant anatomy, growing environments, transplanting and growing on, rooting principles, and the monitoring of growth and development of cuttings. See how to streamline horticulture practices to prevent diseases and increase overall production. Run time is 35 minutes. 1999.

AG05019

THE SCIENCE OF PROPAGATION VOLUME 3: VEGETATIVE TECHNIQUES. San Luis Video

Publishing, [1999].

Note: This program features a very informative, close-up look at the many practical asexual propagation methods that can be used to reproduce plants. See many descriptive step-by-step examples, which demonstrate the different types of vegetative propagation methods such as division, layering, bulbs and underground structures such as rhizomes and tubers. These propagation techniques give quick results and also provide an excellent laboratory for the plant science. Careful explanations of plant parts and procedures are given. This program clearly covers all aspects of vegetative propagation, except for cuttings. Run time is 28 minutes. 1999.

#### AG06000

##### BUSINESS MANAGEMENT IN AGRICULTURE: IDENTIFYING FARM/RANCH & FAMILY GOALS.

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

#### AG06001

##### BUSINESS MANAGEMENT IN AGRICULTURE: SELECTING AND IMPLEMENTING A FARM RECORD SYSTEM.

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

#### AG06002

##### BUSINESS MANAGEMENT IN AGRICULTURE : PREPARING A BALANCE SHEET.

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

#### AG06003

##### BUSINESS MANAGEMENT IN AGRICULTURE: PREPARING AN INCOME STATEMENT.

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow

statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

**AG06004**

**BUSINESS MANAGEMENT IN AGRICULTURE: ANALYZING FINANCIAL PERFORMANCE.**

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

**AG06005**

**BUSINESS MANAGEMENT IN AGRICULTURE: PREPARING A STATEMENT OF CASH FLOWS.**

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

**AG06006**

**BUSINESS MANAGEMENT IN AGRICULTURE: FARM MACHINERY AND EQUIPMENT: BUY, LEASE OR CUSTOM HIRE?**

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

**AG06007**

**BUSINESS MANAGEMENT IN AGRICULTURE: ANALYZING LAND INVESTMENTS.**

Note: The agriculture management series tapes include strategic planning for financial success, identifying farm/ranch and family goals, selecting and implementing a farm record system, preparing a balance sheet, preparing an income statement, analyzing financial performance, preparing a cash flow statement, whole-farm budgeting, and partial-farm budgeting. A training manual is included with each video program. (20-40 minutes each).

**AG06008**

**ORAL REASONS FOR LIVESTOCK JUDGING. CEV Multimedia.**

Note: This program will help the viewer prepare for livestock judging competition. It presents basic requirements, introduces terms, shows examples of judging competition, and covers presentation skills. Run time

is 34 minutes.

#### AG06009

##### AGRICULTURE'S NEW PROFESSIONS.

Note: This video shows people working in agricultural careers in production, research, sales and service, engineering, natural resources, politics, and marketing. Each worker discusses his/her occupation and the part it plays in the field of agriculture as a changing technology.

#### AG06010

##### TROUBLESHOOTING CUSTOMER COMPLAINTS.

Note: Using a "Dragnet" style sketch, two chemical company employees learn how to work with several personality types to investigate customer complaints.

Run time is 21 minutes.

#### AG06011

##### FARMERS...ENTREPRENEURS.

Note: This video covers the marketing and business management aspects of farming. It features farming as a viable and complicated business venture.

#### AG07000

##### SOIL TESTING: WHERE YIELDS BEGIN.

Note: This program begins with a history of soil testing and follows with procedures for taking soil samples. The proper equipment is shown and methods for obtaining samples and sending them to the lab are discussed. The samples are followed through the lab where the viewer observes the various tests performed and the procedures for preparing a lab report. Run time is 25 minutes.

#### AG07001

##### SOUTH DAKOTA'S FORESTS.

Note: This program presents the various locations around South Dakota where forest lands are located. The preservation of forest lands, their commercial use and environmental benefits are highlighted. Run time is 29 minutes.

#### AG07005

##### THE FUNDAMENTALS OF PRUNING. San Luis Video Publishing, [2000].

Note: With a balance of technique and application, this video delivers the foundation to approaching any job. This video explores why and how plants respond to pruning; proper tool selection and use; why and when you should prune; and pruning for desired results. Learn pruning principles as applied to ornamental trees, informal and formal hedges, roses, conifers, flowering shrubs and more. Run time is 37 minutes. 2000.

#### AG07006

## THE PRINCIPLES OF LANDSCAPE DESIGN. [01/01/01].

Note: This video discusses the professions of landscape architect and landscape designer, looks at the artistic principles and elements of good landscape design, and explores the scientific and technical disciplines that make a design successful. Run time is 22 minutes.

## AG07008

### LANDSCAPE DESIGN PRESENTATION TECHNIQUES. [01/01/01].

Note: Viewers learn how a landscape designer, landscape contractor and landscape architect present their designs for approval. Run time is 30 minutes.

## AG07010

### GRASS IDENTIFICATION PART I. [01/01/95].

Note: Close-up views of seventeen different species of grass (includes annual thereon, big bluestem, broomsedge bluestem, perennial dropseed, and purpletop); graphic representations of each plant for length of life, season of growth, origin, grazing value, reaction to abuse; and correct spellings and pronunciations of common and Latin names are provided. Run time is 34 minutes.

## AG07011

### GRASS IDENTIFICATION PART II. [01/01/95].

Note: Grass Identification Part II provides viewers with close-up views of seventeen additional species of grass (includes red grama, schribner panicum, splitbeard bluestem, vine mesquite, wildrye, and windmill grass); graphic representations of each plant for length of life, season of growth, origin, grazing value, reaction to abuse; and correct spellings and pronunciations of common and Latin names. Run time is 29 minutes.

## AG07012

### BASIC LANDSCAPING: PLANNING AND PLANTING. Hometime Video, [1994].

Note: This program covers designing a landscape plan, preparing new beds, planting bareroot and balled shrubs, planting balled trees, planting container shrubs and mulching new beds. Run time is 48 minutes.

## AG07015

### DISEASES OF LANDSCAPE PLANTS. Visual Education Productions, [1995].

Note: Use the information in this program to help you understand the main causes of plant diseases to maintain the health and vigor of your landscape plants. You'll see clear examples of fungi, bacteria, and viruses, as well as environmental causes that affect the health of plants. You'll how to become a "plant doctor" by looking for symptoms of ailing plants and then locating the right treatment. Disease prevention is emphasized. Run time is 17 minutes. 1995.

## AG07016

### FUNDAMENTALS OF FORESTRY. CEV Multimedia, [1995].

Note: Live-action video footage stimulates interest in forestry and provides an excellent foundation for contest teams. The featured expert has coached three first place teams in the Southern Region FFA and 4-H Forestry contest and 15 first place teams in the Texas State Contest. He discusses and demonstrates 10 of the 12 parts of the Texas State Woodland Clinic Contest: pine identification, rate of growth, selective thinning, tree volume, wood products, wood identification, site index, cull tree removal, woodland suitability, using a compass and pacing. A supplement and a contest information sheet are included. Run time is 39 minutes. 1995.

#### AG07017

LOW MAINTENANCE LANDSCAPING IDEAS. Anderson Video Communications, Inc.

Note: This video shows that it doesn't necessarily take constant hard work to have an attractive and interesting landscape garden. The video consists of some time-saving ideas to produce the most attractive landscape with the least amount of effort. Run time is 56 minutes.

#### AG07018

LAWN INSTALLATION AND MAINTENANCE. Anderson Video Communications, Inc.

Note: This tape shows you how to create a healthy attractive lawn. Includes the characteristics of grass, seeding, sodding, maintenance and repair lawn problems. Run time is 55 minutes.

#### AG07019

DESIGN SOIL PREPARATION AND PLANTING. Anderson Video Communications, Inc.

Note: This program shows you how to plan and execute your basic landscape design from concept to plant selection, soil preparation, and planting. Run time is 62 minutes.

#### AG08000

INTEGRATED PEST MANAGEMENT.

Note: Instructions for the five basic Integrated Pest Management techniques used by farmers to combat specific weed, disease and insect problems are covered in this program. Run time is 15 minutes.

#### AG08001

THE EXPORT QUALITY CHALLENGE.

Note: This video covers international marketing of American grain. The benefits and challenges are presented.

#### AG08002

FOREIGN AGRICULTURAL SERVICE: A JOB FOR THE FUTURE.

Note: Employees of the Foreign Agricultural Service discuss their jobs within the agency and the world wide effect of the agency. Run time is 12 minutes.

#### AG08003

USDA EXPORT ENHANCEMENT PROGRAM.

Note: This video explains the USDA Export Enhancement Program developed to assist in the export of U.S. agricultural products by providing subsidies

which allow U.S. products to be competitive in the world market. Run time is 11 minutes.

AG09000

FUNDAMENTAL PARLIAMENTARY PROCEDURE.

Note: This video provides the history and purpose of parliamentary procedure and demonstrations for all parts of a properly run meeting. Run time is 46 minutes.

AG09001

NATIONAL FFA MARKETING PLAN PROJECT.

Note: An FFA competitive team presents a marketing plan followed by suggestions for its development. Run time is 25 minutes.

AG09002

PROJECT PALS.

Note: This program highlights successful Project PALS programs sponsored by FFA chapters in Michigan and Arkansas. Project PALS teams up FFA members with elementary school children for help with school or play time activities. Run time is 11 minutes.

AG09003

FFA COMPETITIVE PUBLIC SPEAKING: EXTEMPORANEOUS SPEECH CONTEST.

Note: Curtis Childress, a former FFA extemporaneous speech contest winner, discusses his methods of preparing for the contest. The importance of gathering and organizing resource materials and reading current articles related to possible speech topics is stressed. The viewer is taken into the preparation room where Curtis selects topics and proceeds to outline the steps of preparation. After the competitive speech the steps for success in the contest are reviewed. Run time is 47 minutes.

AG09004

FFA COMPETITIVE PUBLIC SPEAKING: THE SPEECH CONTEST. [01/01/94].

Note: Two speech contest winners discuss the process of topic selection, research, writing, and presentation for the FFA speech contest. Run time is 27 minutes.

AG09005

TODAY'S FFA: IT'S YOU. [01/01/94].

Note: This is a great tool to introduce young people to FFA. From the quarterback of the football team to the cheerleader to the future teacher, the video will appeal to a wide variety of students. In addition to its broad appeal, it touches on all the major areas of FFA including: fun, competition, travel, friends, and supervised agricultural experiences. Run time is 7 minutes.

AG09006

MAKE IT HAPPEN...JOIN FFA. [01/01/94].



Note: This fast-paced video can help introduce FFA to young people while encouraging them to pay their dues. Narrated by a former national officer, it shows students how their dues investment can pay off in terms to which they can relate. Make It Happen...Join FFA! touches on all the major areas of FFA including: fun, competition, travel, friends, scholarships, and SAEs. Run time is 8 minutes.

#### AG10002

##### MINING AND THE ENVIRONMENT.

Note: This program centers on the issue of mining vs. the environment. It shows the precautions taken during exploration drilling in the wilderness to minimize the disturbance to nature. Copper and silver mining activities at Troy Mine in northern Montana demonstrate efforts taken to protect the environment and also highlight the economic importance of the mine to the area. Run time is 14 minutes.

#### AG10003

##### INTRODUCTION TO WATER QUALITY TESTING.

Note: This video shows types of water sources available to pond owners, how these water sources differ in quality with respect to type and location, and describes the basic ionic constituents present in each source. A discussion of dissolved gases, plankton, aquatic plants, turbidity, and pollutants is also included. Testing procedures for several basic water quality parameters are presented and possible corrective measure are discussed. Run time is 34 minutes.

#### AG10004

##### WATER QUALITY DYNAMICS.

Note: This video addresses several water quality characteristics proven to be critical in fish production operations and helps provide a working knowledge of factors influencing the overall biology of a pond. Run time is 25 minutes.

#### AG10005

##### PROCEDURES FOR WATER QUALITY MANAGEMENT.

Note: This video describes testing procedures and water quality parameters discussed in Water Quality Dynamics. Corrective measures for each parameter as well as water testing kits and meters are also examined. Run time is 40 minutes.

#### AG10006

##### TREE IDENTIFICATION. [01/01/96].

Note: Sid Robinson discusses the remaining two parts of the State Woodland Clinic Contest, pointing out key characteristics to help students identify 40 different species of hardwood trees, timber, and forage. Close-up footage

of bark and leaves of each specimen allows students to see important identifying characteristics. Hardwood identification and timber/forage relationships are also included. Run time is 20 minutes.

AG10007

WATER TREATMENT PLANT FIELD TRIP. [01/01/97].

Note: This video examines the regulated treatment and filtration of raw water collection from various lake and reservoir sources. It also explores the daily operation of a water treatment plant and how water is purified. Pretreatment, disinfection, coagulation, softening, taste, and odor control, flocculation, sedimentation, fluoridation, restabilization, disinfection, storage and dissemination are covered. Run time is 20 minutes.

AG10008

LAND APPLICATION: WATER REUSE IN AGRICULTURE. [01/01/97].

Note: This video presents information concerning agriculture land application principles and the distribution of effluent wastewater into the upper zones of plant-soil systems. Wastewater treatment, collection, distribution, and management practices are discussed in detail. Run time is 23 minutes.

AG10009

NATURAL RESOURCES: SOIL CONSERVATION. CEV MULTIMEDIA, [1997].

Note: This program examines soil erosion - its impact on our economy, its causes and its prevention. It profiles the Soil Conservation Service (now the United States Natural Resource Conservation Service), founded in 1935 in response of devastation caused by the "dust bowl." You'll learn about soil conservation techniques, such as crop rotation, grassed waterways, increasing organic matter in the soil, no-till farming, urban conservation techniques and more. Video quizzes are included. Run time is 21 minutes.

AG10010

NATURAL RESOURCES: LAND APPLICATION - WATER REUSE IN AGRICULTURE. LUBBOCK TEXAS: CEV MULTIMEDIA, [1995].

Note: This program defines the difference between limited and unlimited resources and renewable and non-renewable resources. Run time is 23 minutes.

AG10011 NATURAL RESOURCES. Shopware, [1999].

Note: This CD-ROM defines the differences between limited and unlimited resources and renewable and non-renewable resources. 1999.

AG10012 EARTH AID: RECYCLING. VIEW Video, [1995].

Note: In one day the U.S. disposes of more than 90 million bottles and jars, 46

million cans and 25 million TV sets. Recycling has become a must in order to preserve the delicate balance of the natural systems which are vital to life on this planet. Did you know that making recycled paper takes 50% less energy and reduces related air pollution by about 95%? Millions of trees could be saved if we recycled our papers. This program illustrates how to recycle, precycle and reuse a variety of materials. Run time is 17 minutes. 1995.

AG10013 EARTH AID: WATER CONSERVATION. VIEW Video, [1995].

Note: More and more people on Earth use more and more water, but the amount of water we have to use remains the same! In order to preserve and replenish our planet's natural resources, water conservation has become a must. By learning some easy-to-follow suggestions, you will help assure a plentiful supply of water for your home and America's future. Run time is 20 minutes.

AG10014 WATER CONSERVATION IN THE HOME. [01/01/97].

Note: In this easy-to-understand and helpful video, students learn how to prevent wasting one of our nation's most valuable resources - water. Learn why water conservation is important in every home and what simple steps you can take to waste-proof your home. Discover how easy it can be to install a toilet dam and faucet aerator. This is a must-see video for anyone interested in water conservation and saving money. Run time is 14 minutes.

AG11001 SAE: IT'S MORE THAN YOU THINK!

This energetic video shows FFA members talking about their SAEs and what they feel they've gained from the experience. It answers the question, "What is an SAE?" Supervised Agricultural Experience! And this video includes everything from apples to wildlife. In addition, it covers: who SAEs are for; keeping records; making money; making learning fun; and building pride, dedication, responsibility, and more! Run time is 16 minutes. 1996